

What is claimed is:

1. A bus stop illuminating device comprising:
5 a power storage device;

a solar panel to charge the power storage device;

10 at least one light source connected to the power storage device to provide illumination to the bus stop; and

at least one switch to control illumination of the at least one light source.
- 15 2. A device as claimed in claim 1 in which the at least one light source is a light emitting diode (LED).
3. A device as claimed in claim 1 including a second light source to signal a bus to stop and a second switch to control illumination of the second light source.
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4. A device as claimed in claim 3 in which the second light source is a light emitting diode (LED).
5. A device as claimed in claim 1 including a display region for displaying
25 information.
6. A device as claimed in claim 5 in which the display region includes a third light source to illuminate the display region and a third switch to control illumination of the display region.
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7. A device as claimed in claim 6 in which the display region comprises a reflective back layer, a light diffusing intermediate layer adapted to be edge lit by the

third light source, a translucent layer on which the information is displayed, and a protective front layer.

8. A device as claimed in claim 7 in which the third light source is a light
5 emitting diode (LED).

9. A lighting device for use at a bus stop comprising:
- a solar panel;
- 10 a power storage device chargeable by the solar panel;
- a first light source for illuminating an area adjacent the bus stop;
- 15 a second light source to signal a bus to stop;
- a bus schedule assembly for displaying bus schedule information;
- a third light source to illuminate the bus schedule assembly; and
- 20 a switch assembly electrically connected between the power storage device and the light sources to allow operation of at least one of the light sources on actuation of the switch assembly.
- 25 10.. The device as claimed in claim 9 including a head assembly for housing the solar panel, the power storage device, the first and second light sources and control circuitry for controlling charging of the power storage device by the solar panel, the head assembly being mountable to a post defining the bus stop.
- 30 11. The device as claimed in claim 10 in which the bus schedule assembly and the switch assembly are mounted in a housing mountable to the post.

12. The device as claimed in claim 9 in which the light sources comprise light emitting diodes (LED).
13. The device as claimed in claim 9 in which the third light source functions to
5 illuminate the bus schedule assembly by edge lighting.
14. The device as claimed in claim 13 in which the third light source comprises a light emitting diode (LED).
- 10 15. The device as claimed in claim 9 in which the bus schedule assembly comprises a reflective back layer, a light diffusing intermediate layer adapted to be edge lit by the third light source, a translucent layer on which the bus schedule information is printed, and a protective front layer.
- 15 16. The device as claimed in claim 15 in which the light diffusing layer is formed from acrylic.
17. The device as claimed in claim 15 in which the protective front layer is formed from polycarbonate.
- 20 18. The device as claimed in claim 9 in which the switch assembly comprises a plurality of touch-sensitive capacitive buttons to activate the light sources.
19. A bus stop illuminating device comprising:
25 a support structure;
a lighting assembly mounted to the support structure and housing
30 a power storage device;
a solar panel to charge the power storage device;

at least one light source connected to the power storage device to provide illumination to the bus stop; and

5 at least one switch mounted to the support structure to control illumination of the at least one light source.

20. A device as claimed in claim 19 in which the support structure is a post.

10 21. A device as claimed in claim 19 including a second light source in the lighting assembly to signal a bus to stop and a second switch mounted to the support structure to control illumination of the second light source.

15 22. A device as claimed in claim 19 including a display region for displaying information mounted to the support structure.

23. A device as claimed in claim 22 in which the display region includes a third light source to illuminate the display region and a third switch to control illumination of the display region mounted to the support structure.

20 24. A device as claimed in claim 22 in which the display region comprises a reflective back layer, a light diffusing intermediate layer adapted to be edge lit by the third light source, a translucent layer on which the information is displayed, and a protective front layer.

25 25. A self-contained solar powered assembly for providing power under user control to a bus stop for the purpose of illumination of the bus stop.